

**PARKER DIRECT-FIRED "WATERWALL" 204 SERIES HOT WATER BOILERS  
PRESSURE DROP & FLOW RATE CHART**

Approximate GPM and Pressure Drop at Varying Temperature Rise Through Boiler												
Model	BTU Output in Thousands	Δ15°F		Δ20°F		Δ30°F Recommended Flow Rate		Δ40°F Recommended Flow Rate		Recommended Minimum Flow		Approx. Flow Rate, GPM @ 1 PSI Drop/Cv
		Not Recommended		Max Flow Rate		GPM	ft/head	GPM	ft/head	GPM	ft/head	
		GPM	ft/head	GPM	ft/head							
G672R(.5)	410	54	2.5	41	2	27	2	20	1	10	1	50
G672R(L)	551	73	3	55	2	36	2	27	1	14	1	50
G1008R(L)	827	110	3	82	2.5	55	2	41	1	21	1	75
G1536R(L)	1260	168	4	126	3	84	2	63	1	33	1	90
*G2304R(2.0)(L)	1640	218	11	164	7	109	4	82	3	42	2	65
*G2640R(2.5)(L)	2050	273	11	205	7	137	4	102	3	53	2	80
*G2640R(L)	2165	288	15	216	10	144	6	108	3	60	2	80
*G3120R(L)	2559	341	16	255	12	170	7	128	4	66	2	90

Recommended flow range through boiler = 30-40°F temperature rise

$$\text{FLOW RATE (GPM)} = \frac{\text{BTUH Output}}{8.33\text{-lbs/Gal.} \times 60\text{-min/hr.} \times \Delta T \text{ } ^\circ\text{F}}$$

**NOTES:**

- 1) \*These units are standard 3 pass units, others are 1 pass.
- 2) Consult factory for proper flow rate and pressure drop though boiler for Glycol-based fluids or special models.
- 3) System pump should run creating flow thru the boiler the entire time the boiler is being energized. When heat is no longer required, signal to boiler should be disconnected and pump should run for 5-15-minutes before being turned off.
- 4) Return water temperatures should be kept above 120°F for sustained operation (Start up temperatures below this are acceptable). (140°F for oil fired boilers, 190°F for bio-fueled boilers).
- 5) These boilers are for closed system heating with little or no make up water. If some make up water is present, increase flow rate.